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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.		
10/748,078	12/30/2003	Thomas N. Horsky	211843/00022 6882			
7:	590 10/05/2004	EXAMINER				
Patent Administrator			VU, JIM	VU, ЛММҮ Т		
Katten Muchin Zavis Rosenman						
Suite 1600			ART UNIT	PAPER NUMBER		
525 West Monroe Street			2821			
Chicago, IL 6	0661-3693		DATE MAILED: 10/05/2004	4		

Please find below and/or attached an Office communication concerning this application or proceeding.

		A!:4: N		Annlinent(a)		
		Application N	0.	Applicant(s)		
		10/748,078		HORSKY, THOMAS N.		
	Office Action Summary	Examiner		Art Unit		
		Jimmy T Vu		2821		
Period fo	The MAILING DATE of this communication app or Reply	pears on the co	er sheet with the c	correspondence ad	dress	
A SH THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. a period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period varie to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, he within the statutory will apply and will exp	owever, may a reply be tin minimum of thirty (30) day ire SIX (6) MONTHS from n to become ABANDONE	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133).		
Status						
•	Responsive to communication(s) filed on <u>30 D</u> . This action is FINAL . 2b) This Since this application is in condition for allower closed in accordance with the practice under E	action is non-f	formal matters, pro		merits is	
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) 1-10 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	wn from consid				
Applicat	ion Papers					
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	epted or b) (c drawing(s) be he tion is required if	eld in abeyance. See the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CF	• •	
Priority i	under 35 II S.C. & 119					
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
2) Notice 3) Information Paper	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) tr No(s)/Mail Date 12/30/03.	4) [5) [6) [—)-152)	

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DETAILED ACTION

Information Disclosure Statement

The references listed on the information disclosure statement submitted on 12/30/2003 have been considered.

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1 and 4-9 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-6 of U.S. Patent No. 6,686,595 B2. Although the conflicting claims are not identical, they are not patentably distinct from each other because '595 teaches all of the limitations of the ion source as claimed in claims 1 and 4-9 of the present invention.

This is a <u>provisional</u> obviousness-type double patenting rejection.

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Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-3 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Leung (U.S. Patent number 5,136,171).

Regarding claim 1, Leung discloses an ion source (10) (Fig. 1) comprising:

an ionization chamber (200) (Fig. 11), said ionization chamber including a vapor entrance aperture for receiving gaseous feed material, an extraction aperture (10, 20) for emitting an ionized beam (12, 204) and one or more electron beams (22, 230), said one or more electron beams being generally parallel to the plane of said extraction aperture (Figs. 1 and 11);

one or more electron beam sources (20, 220), disposed to generate one or more electron beams in a direction generally perpendicular to the plane of said extraction aperture (Figs. 1 and 11); and

one or more beam steerers (234, 236, 237, 238) for bending said one or more electron beams so that said one or more electron beams travel in a direction generally parallel to the plane of said extraction aperture and are received in said one or more electron entrance apertures (Figs. 1 and 11; col. 5, lines 60-67; col. 6, lines 17-67; col. 7, lines 1-67; col. 11, lines 20-67).

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Regarding claim 2, Leung discloses the ion source wherein each of said beam steerers includes a magnetic field source configured to generate a magnetic field in a direction generally perpendicular to said electron beam (Figs. 1 and 11).

Regarding claim 3, Leung discloses the ion source wherein at least one of said one or more electron beam sources is a filament (col. 1, lines 65-67).

Regarding claim 10, Leung discloses the ion source wherein at least one of said one or more magnetic field sources includes a permanent magnet (234) (Fig. 11).

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Meek et al and Maglich et al disclosed related art.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jimmy T Vu whose telephone number is (571) 272-1832. The examiner can normally be reached on M F: 9 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2800.

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Jimmy Vu

September 28, 2004

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